

<p>(51) International Patent Classification 7 :  <b>C12N 15/12, C07K 14/47, 14/705, 16/28,          G01N 33/566</b></p>	A1	<p>(11) International Publication Number:      <b>WO 00/26369</b>          (43) International Publication Date:        11 May 2000 (11.05.00)</p>
<p>(21) International Application Number:      PCT/US99/25848          (22) International Filing Date:             3 November 1999 (03.11.99)          (30) Priority Data:                  60/107,112                                4 November 1998 (04.11.98)      US                  60/114,856                                6 January 1999 (06.01.99)      US</p>	<p>(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p>	
<p>(71) Applicant (for all designated States except US): CHIRON CORPORATION [US/US]; 4560 Horton Street - R440, Emeryville, CA 94608 (US).          (72) Inventors; and          (75) Inventors/Applicants (for US only): KHOJA, Hamiduddin [US/US]; Apartment 48K, 23592 Windsong, Aliso Viejo, CA 92656 (US). SHYMALA, Venkatakrishna [US/US]; 11430 Sun Valley Drive, Oakland, CA 94605 (US).          (74) Agents: BORDEN, Paula, A. et al.; Bozicevic, Field &amp; Francis LLP, Suite 200, 285 Hamilton Avenue, Palo Alto, CA 94301 (US).</p>	<p><b>Published</b>  <i>With international search report.          Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p>	
<p>(54) Title: ISOLATED VSHK-1 RECEPTOR POLYPEPTIDES AND METHODS OF USE THEREOF</p>		
<p>(57) Abstract</p> <p>A new seven transmembrane receptor has been identified, and the amino acid and nucleotide sequence of the receptor are provided. The nucleotide sequence is useful to construct expression cassettes and vectors to produce host cells which are capable of expressing the receptor, its mutants, fragments, or fusions. Such polypeptides are useful for identifying new receptor binding agonists and antagonists.</p>		

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 99/25848

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/12 C07K14/47 C07K14/705 C07K16/28 G01N33/566

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N C07K G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	MATSUOKA ET AL: "Identification of novel members of G-protein coupled receptor superfamily expressed in bovine taste tissue" BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS,US,ACADEMIC PRESS INC. ORLANDO, FL, vol. 194, no. 1, 15 July 1993 (1993-07-15), pages 504-511, XP002102959 ISSN: 0006-291X figure 2	1,2,4-6, 8-10, 12-20
P,X	WO 99 24463 A (INCYTE PHARMA INC ;MATHUR PREETE (US); REDDY ROOPA (US); AU YOUNG) 20 May 1999 (1999-05-20) page 17, line 1 -page 48, line 14; figure 1	1-20

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

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"P" document published prior to the international filing date but later than the priority date claimed

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the international search

7 April 2000

Date of mailing of the international search report

14/04/2000

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# INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 99/25848

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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A	O'DOWD ET AL: "A novel gene for a putative G-protein-coupled receptor with an abundant expression in brain" FEBS LETTERS,NL,ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, vol. 394, 1996, pages 325-329, XP002102960 ISSN: 0014-5793 the whole document ---	1-20
A	WALLIN ET AL: "Properties of N-terminal tails in G-protein coupled receptors: a statistical study" PROTEIN ENGINEERING,GB,OXFORD UNIVERSITY PRESS, SURREY, vol. 8, no. 7, 1995, pages 693-698, XP002102961 ISSN: 0269-2139 the whole document ---	1-20
A	JACOBS ET AL: "A genetic selection for isolating cDNAs encoding secreted proteins" GENE,NL,ELSEVIER, AMSTERDAM, vol. 198, 1997, pages 289-296, XP002102962 ISSN: 0378-1119 the whole document -----	1-20

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Information on patent family members

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